IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Richard A. NAZARIAN et al.) Group Art Unit: 3737
Application No.: 09/030,989) Examiner: Unassigned
Filed: February 26, 1998)
For: MEDICAL PERFUSION SYSTEM	PE
COMMUN	ICATION OUT O 6 1999
Assistant Commissioner for Patents Washington, D.C. 20231	FIFT & TRADESTIFE
Sir:	
Enclosed please find a copy of a Revoc	ation and New Power of Attorney by
Assignee of Entire interest for the above-caption	oned application, as highlighted in Exhibit A.
Applicant respectfully requests acceptance and	acknowledgment of the same.
Please note that only the relevant page	of the original Exhibit A (11 pages) is
attached. If an entire copy is required or shou	ld any questions arise in connection with this \gtrsim
Revocation or the application in general, the U	J.S. Patent and Trademark Office is kindly
invited to call the undersigned counsel for appl	licant regarding the same.
Respec	tfully submitted,
Burns,	DOANE, SWECKER & MATHIS, L.L.P.
	endi L. Weinstein egistration No. 34,456
P.O. Box 1404 Alexandria, Virginia 22313-1404	2008 2008

(703) 836-6620

Exhibit A



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Page 5 of 11

COUNTRY	APPLICATION OR SERIAL NO.	PATENT OR PUBLICATION NO.	TITLE	FIRST INVENTOR
US	08/822,523	5,747,138	Multilayer Hollow Fiber Body And Method Of Making	Ronald J. Leonard
US	09/070,711	5,888,611	Multilayer Hollow Fiber Body And Method Of Making	Ronald J. Leonard
US	09/053,167		Blood Oxygenator And Heat Exchanger	Ronald J. Leonard
US	08/565,438	5,762,868	Blood Oxygenator And Heat Exchanger	Ronald J. Leonard
US	08/707,656	5,644,093	Sensor Mounting Pad and Method	David W. Wright
US	09/118,013		Blood Treatment Cartridge	Erin J. Lindsay
US	08/659,808	5,871,693	Modular Blood Treatment Cartridge	Erin J. Lindsay
US	08/724,520	5,752,931	Perfusion System With Perfusion Circuit Display	Richard A. Nazarian
US	08/714,354		Blood Aspirator	William Bedingham
(US)	09/030,989		Medical Perfusion System	Richard A. Nazarian 7
US	08/723,504	5,813,972	Medical Perfusion System With Data Communications Network	Richard A. Nazarian
US	08/722,980		Perfusion System With Control Network	Richard A. Nazarian
US	08/962,360		Mounting Apparatus For Blood Handling Systems	Erin J. Lindsay
US	08/966,399		Reservoir Mounting Bracket	Erin Lindsay
US	09/123,696		Potting Of Tubular Bundles In Housing	Ronald J. Leonard

Exhibit B



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ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS



THIS ASSIGNMENT is effective as of this 30th day of June, 1999.

WHEREAS, MINNESOTA MINING & MANUFACTURING COMPANY

("ASSIGNOR"), a corporation organized and existing by virtue of the laws of DELAWARE and having its principal place of business at 3M CENTER, ST. PAUL, MINNESOTA, is an owner of record of the patents (including utility model registrations and design patents) and patent applications (including utility model applications and design patent applications) listed in Appendices A, B, and C attached hereto; and

WHEREAS, TERUMO CARDIOVASCULAR SYSTEMS CORPORATION

("ASSIGNEE"), a corporation organized and existing under the laws of DELAWARE and having its principal place of business at 2101 COTTONTAIL LANE, SOMERSET, NEW JERSEY, has purchased for consideration all of ASSIGNOR's right, title, and interest in and to all the said patents and patent applications listed on attached Appendices A,B, and C, and all of ASSIGNOR's right, title, and interest in and to all future patents (including utility model registrations and design patents) and patent applications (including utility model applications and design patent applications) corresponding to said patents and patent applications, and any reissue patents, reexamined patents, renewals, extensions, divisions, continuations, and continuations-in-part of said patents and patent applications, except for U.S. Patent Nos. 4,886,338, 4,919,891, 4,786,474 and 5,104,623 and any reexamined patents, reissue patents, renewals or extensions of U.S. Patent Nos. 4,886,338 and 4,919,891.

WHEREAS, ASSIGNOR and ASSIGNEE desire to record this instrument in the United States Patent and Trademark Office and in patent offices in countries foreign to the United States attesting to the assignment of said patents and patent applications listed on attached Appendices A, B, and C;

NOW, THEREFORE, ASSIGNOR hereby assigns and transfers to ASSIGNEE its entire right, title, and interest in and to the said patents and patent applications listed on attached Appendices A, B, and C, and all of ASSIGNOR's right, title, and interest in and to all future patents (including utility model registrations and design patents) and patent applications (including utility model applications and design patent applications) corresponding to said patents and patent applications, and any reissue patents, reexamined patent, renewals, extensions, divisions, continuation, and continuations-in-part of said patents and patent applications, except for U.S. Patent Nos. 4,886,338, 4,919,891, 4,786,474 and 5,104,623 and any reexamined patents, reissue patents, renewals or extensions of U.S. Patent Nos. 4,886,338 and 4,919,891. Said patents and patent applications to be held and enjoyed by ASSIGNEE for its own use and for the use of its legal representatives, successors, and assigns, to the full end of the term for which the said patents listed on Appendices A, B, and C were and may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment not been made.

By: Alle Welke

Name: KAREN WELKE

Title: VICE PRESIDENT, MEDICAL MARKETS GROUP

Date: 6/30/97

Post Office Address:
3M Center

St. Paul, Minnesota 55144-1000

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	Application or	Patent or			
Country	Serial No.	Publication No.	Title	First Inventor	File No.
<u></u>			Integrated Cardioplegia Delivery		
SO	06/279,174	4,433,971	System	Erin J. Lindsay	32480USA1A
5			Integrated Cardioplegia Delivery	,	
Ċ.	06/548,298	4,512,163	System	Edward S. Wells	32481USA6B
;			Integrated Cardioplegia Delivery	-	
CS	06/279,175	4,427,009	System	Edward S. Wells	32481115484
SU	06/329,604	4,416,280	Cardioplegia Delivery System	Walter L. Carpenter	32492USA3B
			Cardioplegia Delivery System With	-	
CA	454227	1225895	Improved Bubble Trap	Dennis M. Kujawski	33233CAN3A
			Cardioplegia Delivery System With		
S.	•	4,568,330	Improved Bubble Trap	Dennis M. Kujawski	33233USA2A
	06/584,316	4,605,006	Hypothermic Protection Pad	Roberta Collins Harner	33341115434
:	3237200	1144835	Cardiotomy Reservoir	Thomas W. Crockett	41156CAN7A
CA	343137	1128827	Bubble Oxygenator	George G. Siposs	41162CANIAA
SU	06/122,779	4,336,224	Bubble Oxygenator	George G. Siposs	41162USA1B
			Centrifugal Blood Pump With	-	
· ·	06/628,756	4,589,822	Impeller	Earl W. Clausen	42156USA5A
			Centrifugal Blood Pump With		
CA	486378	1249748	Tapered Shaft Seal	Earl W. Clausen	42157CAN4A
			Centrifugal Blood Pump With		
<u> </u>	85.903734.3	188567	Tapered Shaft Seal	Earl W. Clausen	42157FRA1A
			Centrifugal Blood Pump With		
- DE	85.903734.3	188567	Tapered Shaft Seal	Earl W. Clausen	42157GEW3A
			Centrifugal Blood Pump With		
,	85.903734.3	188567		Earl W. Clausen	42157ITA3A
_			Centrifugal Blood Pump With		
C U	06/628,727	4,606,698		Earl W. Clausen	42157USA3A
		,	Centrifugal Blood Pump With		
00	06/936,975	4,778,445	Backflow Detection	Lloyd C. Hubbard	42158USAGR



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	Application or	Patent or		MOON	
Country	Serial No.	Publication No.	Title	First Inventor	File No.
			Doppler System For Measurement	:	
			Of Blood Flow During		
			Cardiopulmonary Bypass And		
S	06/863,128	4,690,002	Ventricular Assist	Lloyd C. Hubbard	42160USA6A
US.	07/150,340	4,863,441	Venous Return Catheter	Erin J. Lindsav	42295USA9R
SO	07/074,549	4,781,525	Flow Measurement System	Lloyd C. Hubbard	4256811SA2A
SU	07/300,265	4,936,759	Blood Reservoir/Pump	Earl W. Clausen	42980USA8A
		-	Combination Fluid Path And Mount		
DE	89.305146.6	351043	For Heat Exchanger	Ronald J. Leonard	43263GEW7A
 i			Combination Fluid Path And Mount	,	
- - -	89.305146.6	351043	For Heat Exchanger	Ronald J. Leonard	43263ITA7A
j			Combination Fluid Path And Mount		
2	132926/89	2774816	For Heat Exchanger	Ronald J. Leonard	43263JAP9A
			Combination Fluid Path And Mount		
	07/219,325	4,846,177	For Heat Exchanger	Ronald J. Leonard	43263USA7A
i	89.309264.3	359531	Cardioplegia Administration Set	Ronald J. Leonard	43461GEW7A
; =	ω	359531	Cardioplegia Administration Set	Ronald J. Leonard	43461ITA7A
JP	234848/89	:	Cardioplegia Administration Set	ب_	43461JAP9A
SO	07/243,896	4,883,455	Cardioplegia Administration Set	ب.	43461USA7A
	93.116012.1	591896	Membrane Blood Oxygenator	<u>د</u>	43620GEW7B
i C	89.312884.3	373847	Membrane Blood Oxygenator	<u>. </u>	43620GEW9A
j =	89.312884.3		Membrane Blood Oxygenator	<u>ب</u>	436201TA9A
j. c	310490/89	2912646	Membrane Blood Oxygenator	Ronald J. Leonard	43620JAP1A
5 7	249394/93		Membrane Blood Oxygenator	Ronald J. Leonard	43620JAP9B
5	0//95/,415		Membrane Blood Oxygenator	Ronald J. Leonard	43620USA5C
Ü	07/657,338	5,152,964	Membrane Blood Oxygenator	Ronald J. Leonard	43620USA7B
	07/000 = 00		Shaft Driven Disposable Centrifugal		
	07/239,526	18	Pump	Lloyd C. Hubbard	43716USA6A
	90.311634.1	425257	Centrifugal Blood Pump		43833FRA5A
ָרָר . ביים ביים ביים ביים ביים ביים ביים ביים	90.311634.1	425257	Centrifugal Blood Pump	:	43833GEW8A

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	Application or	Patent or			
Country	Serial No.	Publication No.	Title	First Inventor	File No
7	90.311634.1	425257	Centrifugal Blood Pump	Earl W. Clausen	43833ITA8A
JP	286937/90		Centrifugal Blood Pump	Earl W. Clausen	43833.IAP1A
S	07/426,102	4,984,972	Centrifugal Blood Pump	Earl W. Clausen	43833USA8A
;			Apparatus And Method For	-	
. C	07/435,558	5,059,375	Producing Kink Resistant Tubing	Erin J. Lindsay	44327USA1A
- -			Catheter And Stylet Assembly		
US	07/728,600	5,163,912	Having Dual Position Stylet	Eric L. Gay	44332USA7B
; ;			Catheter And Stylet Assembly	. •	
C C	07/393,212	5,047,018	Having Dual Position Stylet	Eric L. Gay	44332USA9A
). 1			Arterial Cannula Tip And Method Of		
	G9101636.3	G9101636.3	Manufacture	William G. O'Neill	44884GEW1A
-			Arterial Cannula Tip And Method Of		
C.S.	07/492,604	5,084,033	Manufacture	William G. O'Neill	44884USA1A
			atus	•	
<u>, </u>			For Medical Fluid Circulating		
TT C	95.115431.9	704227	Systems	Erin J. Lindsay	44913EPO1C
7			Quick-Changeover Blood Handling	-	
C	93.916522.1	646023	Apparatus	Erin J. Lindsay	44913GEW5B
 n			Quick Changeover Blood Handling		
ה ה	1.90/039.1	521085	Apparatus	Erin J. Lindsay	44913GEW7A
₹			Quick-Changeover Blood Handling		
	93.916522.1	646023	Apparatus	Erin J. Lindsay	44913ITA5B
₹			Quick Changeover Blood Handling		
-	91.907039.1	521085	Apparatus	Erin J. Lindsay	44913ITA7A
			In-Line Quick Connect Apparatus		
<u> </u>			For Medical Fluid Circulating		
Ţ	246186/95			Erin J. Lindsay	44913JAP5C
j			Quick-Changeover Blood Handling		
270	501//6/94		L	Erin J. Lindsay	44913JAP7B



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		PATE		051 62 130	
	Application or	Patent or		WOON THAIL BOOM	
Country	Serial No.	Publication No.	Title	First Inventor	File No.
i			Quick Changeover Blood Handling		
7	506588/91		Apparatus Quick-Changeover Blood Handling	Erin J. Lindsay	44913JAP9A
S	07/856,574	5,304,164	Apparatus Quick-Changeover Blood Handling	Erin J. Lindsay	44913USA3C
SU	07/686,495	5,254,080	Apparatus Ouick Changeover Blood Handling	Erin J. Lindsay	44913USA5B
S	07/493,286	5,149,318	Apparatus In-Line Quick Connect Apparatus	Erin J. Lindsay	44913USA7A
US .	08/316,245	5,542,913	Systems Quick-Changeover Blood Handling	Erin J. Lindsay	44913USA7F
, C	08/077,344	5,399,156	Apparatus Blood Pumping System With	Erin J. Lindsay	44913USA9E
; E	92.300944.3	498624	BackFlow Warning Blood Pumping System With	Greta L. Buck	46640GEW4A
<u>ح</u> ت	23844/92		BackFlow Warning Blood Pumping System With	Greta L. Buck	46640JAP6A
DE 0	92.924251.9	5,171,212 617627	BackFlow Warning Blood Reservoir	Greta L. Buck Frin J. Lindsay	46640USA4A
ō. ₹	.9	617627	Blood Reservoir		47826ITA9A
S	08/262 347	5 403 973	Blood Reservoir		47826JAP1A
US	07/709,268	5,282,783	Blood Reservoir	Erin J. Lindsay	47826USA5C 47826USA9A
g US	07/888,840	5,255,734	For Heat Exchanger Blood Reservoir With Visible Inlet	Ronald J. Leonard	47849USA1A
i 5	19616557.1	,	Tube Blood Reservoir With Visible Inlet	Erin J. Lindsay	48007GEW4A
-	96A 000/44	1283613	Tube	Erin J. Lindsay	48007ITA4A



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	Country	Serial No.	Publication No.	Title	First Inventor	File No
	•	-		Blood Reservoir With Visible Inlet		
	SO	08/431,886	5,667,485	Tube	Erin J. Lindsay	48007USA4A
	SU	07/978,869	5,400,991	Modular Mounting Assembly	Jack E. Werner	48144115444
	Dir.	94.100510.0	607883	Saw Blade Retention System	David W Wright	18375CEWEV
	GP :	5049/94		Saw Blade Retention System	David W Wright	46375 IABZA
	GB	94.100510.0	607883	Saw Blade Retention System	David W. Wright	48375UNK5A
	.			Saw Blade Retention System	ď	
		08/897,018		(reissue application)	David W. Wright	48375USA1C
	00	08/006,814	5,340,129	Saw Blade Retention System	David W. Wright	48375USA5A
	S	07/951,725	5,403,281	Inline Heat Exchanger And Cardioplegia System	William G. O'Neill	48376USA3A
	EP.	98.103595.9	853954	Retrograde Coronary Sinus Catheter William G. O'Neill	William G. O'Neill	48445EPO1C
	1					-
	EP	98.100991.3	841073	Retrograde Coronary Sinus Catheter	eter William G. O'Neill	48445EPO2B
	E P	93.106754.0	567976	Retrograde Coronary Sinus Catheter	eter William G. O'Neill	48445EPO4A
	JP	99329/93		Retrograde Coronary Sinus Catheter	eter William G. O'Neill	48445JAP8A
	US .	08/398,429	5,807,326	Retrograde Coronary Sinus Catheter William G. O'Neill	William G. O'Neill	48445
	S	08/350.649	5 620 418	Betrograde Occasion Catholical		
		:		Retrograde Coronary Sinus Catheter	William G. O'Nelli	48445USA2C
	S	08/021,526	5,395,331		William G. O'Neill	48445USA4B
	S	07/874,589	5,324,260	Retrograde Coronary Sinus Catheter William G. O'Neill	William G. O'Neill	48445USA6A
•	S	07/907,156	5,316,247	Clip	Michael A. Wodka	48649USA4A
		D-07/907,208	D-347,164		Michael A. Wodka	48650USA1A

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	Application or	Patent or		IC 27 CO NOIL ROOM	4
Country	Serial No.	Publication No.	Title	First Inventor	File No.
			Cardioplegia Administration System		
SO	08/154,925	5,423,749	And Method	Kenneth E. Merte	48919USA1A
5			Cardioplegia Administration System		
S	08/383,940	5,464,388	And Method	Kenneth E. Merte	48919USA9B
			Method Of, And Stylet Apparatus		
 !			For, Installing A Retrograde		
DE	G9320845.6	G9320845.6	Coronary Cannula	Christopher M. Bovkin	48941GEW2B
			Method Of, And Stylet Apparatus		
			For, Installing A Retrograde		
DE	93.118590.4	598403	Coronary Cannula	Christopher M. Bovkin	48941GEW4A
	-		Method Of, And Stylet Apparatus		
j			For, Installing A Retrograde		
	62385/93		Coronary Cannula	Christopher M. Boykin	48941JAP6A
			Method Of, And Stylet Apparatus		-
5			For, Installing A Retrograde	-	
G.	08/238,416	5,401,244		Christopher M. Boykin	48941USA1C
;			ade Coronary		
Ç.	08/088,257	5,360,406		Christopher M. Boykin	48941USA2B
	19605864.3		Low Velocity Aortic Cannula		48942GFW2A
<u>.</u>	30652/96	:	Low Velocity Aortic Cannula		48942JAP4A
S	08/392,075	5,616,137	Low Velocity Aortic Cannula	Frin J Lindsay	48045 ICV54
			ary		i co
OS.	D-29/010,455	D-359,801		Christopher M. Boykin	49918USA2A
7			Switch For		
Ē	19602140.5			William G. O'Neill	49922GEW3A
ö			Switch For	·	
<u> </u>	8691/96			William G. O'Neill	49922JAP5A
5			Antegrade/Retrograde Switch For		
	08/790,410	5,755,686	Cardioplegia Cannulae	William G. O'Neill	49922USA1B

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				FILE ROOM	- 3-
Country	Application or	Patent or	1	!	
Country	Serial No.	Publication No.	Title	First Inventor	File No.
			Blood Oxygenation System And		
1	-		Reservoir And Method Of		
ת	94.931845.5	725657	Manufacture	Ronald J. Leonard	50116EPO7A
			Blood Oxygenation System And		
<u> </u>			Reservoir And Method Of		
;	512672/95	1	Manufacture	Ronald J. Leonard	50116JAP1A
;			Method Of Manufacturing A Blood		
SO	08/725,015	5,753,173	Oxygenation System	Ronald J. Leonard	50116USA3D
			Blood Oxygenation System And		
5			Reservoir And Method Of	-	
) :	08/429,359	5,580,522	Manufacture	Ronald J. Leonard	50116USA5C
			Blood Oxygenation System And		
			Reservoir And Method Of		
Ċ.	08/142,809	5,514,335	Manufacture	Ronald J. Leonard	50116USA9A
			Medical Device With EMI Detection		-
	08/422,152	5,564,420	And Cancellation	Richard A. Nazarian	50721USA6A
			Multilayer Hollow Fiber Body And		
E-0	96.940578.6	876 197	Method Of Making	Ronald J. Leonard	50997EPO1A
			Multilayer Hollow Fiber Body And		
:	520556/97	:		Ronald J. Leonard	50997JAP5A
			Multilayer Hollow Fiber Body And		•
·	08/822,523	5,747,138		Ronald J. Leonard	50997USA1B
	-		iber Body And		
Ċ.	09/070,711	5,888,611	Method Of Making	Ronald J. Leonard	50997USA9C
			genator And Heat		
7	96.941418.4	876 171	Exchanger	Ronald J. Leonard	50999EPO7A
			Blood Oxygenator And Heat		-
TX.	99101447.9		Exchanger	Ronald J. Leonard	50999HOK1A
			Blood Oxygenator And Heat		
JP	520553/97			Ronald J. Leonard	50999.IAP1A
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	Application or	Patent or			MOON 111.
Country	Serial No.	Publication No.	Title	First Inventor	File No
5			Blood Oxygenator And Heat		
SO	09/053,167	_	Exchanger	Ronald J. Leonard	50999USA7B
	-		Blood Oxygenator And Heat		
S	08/565,438	5,762,868	Exchanger	Bonald I Johand	E0000116 A 0 A
·. 4	96.105627.2	737 847	Sensor Mounting Pad And Method	David W. Wright	51628EPO1A
JP	78880/96		Sensor Mounting Pad And Method	David W Wright	E1600 IADEA
US :	08/707,656	5,644,093	Sensor Mounting Pad And Method	David W. Wright	51628USA1B
EP	97.929812.2	909 188	Modular Blood Treatment Cartridge	Erin J. Lindsay	52184EPO2A
Ā	50086/98		Modular Blood Trootmost Costal		
S	09/118,031	: :	Blood Treatment Cartridge	Erin J. Lindsay	52184JAP6A 52184USA2B
US	08/659,808	5,871,693	Modular Blood Treatment Cartridge	Erin J. Lindsay	52184USA4A
DE ·	19782052.2	:	Perfusion System With Perfusion Circuit Display	Richard A. Nazarian	52837GEW9A
JP .	10-516515	:	Perfusion System With Perfusion Circuit Display	Richard A. Nazarian	52837 IAP1A
US	08/724 520	5 752 021	Perfusion System With Perfusion		
JP	10-513649		Blood Aspirator	William Bedingham	52837USA9A 52838JAP9A
WO	US97/13825	WO98/10810	Blood Aspirator	William Bedingham	52838PCT5A
SU	08/714,354		Blood Aspirator	William Redinaham	6000010000
m	19782054.9		on System		52863GEW/A
- -	10-316318		Medical Perfusion System		52863JAP6A
S	09/030,989		Medical Perfusion System	Richard A. Nazarian	52863HSA2B



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	Application or	Dates of			
	- Privation of	י מופווו סו			
Country	Serial No.	Publication No.	Title	First Inventor	File No.
			Medical Perfusion System With Data		
0	08/723,504	5,813,972		Richard A. Nazarian	52863USA4A
			ontrol		
100	19782053.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Richard A. Nazarian	52866GFWAA
			Perfusion System With Control		
) T	10-516517		Network	Richard A. Nazarian	52866.JAP1A
			Perfusion System With Control	-	
08	08/722,980			Richard A. Nazarian	52866USA8A
			Mounting Apparatus For Blood		
WO	US98/04941	WO 99/22785	7.14.1	Erin J. Lindsay	53230PCT2A
			us For Blood		
				Erin J. Lindsay	53230USA4A
:	US98/05555 \	WO 99/24088	g Bracket	Erin J. Lindsav	53431PCT6A
08	08/966,399			Erin J. Lindsay	53431USA8A
5		•	or A		
Š	:			Daniel W. Viitala	53591PCT8A
_			Potting Of Tubular Bundles In		
. 09	09/123,696		Housing	Ronald J. Leonard	53591USA1A
			Volume Control Apparatus For A	4	
000	09/079,046		ous Reservoir	Daniel W. Viitala	53916USA1A
	09/239,440		Blood Pump	William Bedingham	54331USA9A
			Self-Contained Pack Assembly For		
09	09/244,426		An Extracorporeal Blood Circuit E	Erin J. Lindsay	54673USA5A
	700/00700		For A		
WO	00/80/6650		Flexible Venous Reservoir	Daniel W. Viitala	53916PCT8A



	Application	Patent or Publication			
Country	or Serial No.	No.	Title	First Inventor	File No.
S	07/979,181	5,368,554	Blood Pumping System With Selective Backflow Warning	Richard A. Nazarian	48596USA7A
CA	2115895	•	Low Velocity Aortic Cannula	Christopher M. Boykin	49198CAN1'A
EP	95.115700.7		Low Velocity Aortic Cannula	Delos M. Cosgrove	49198EPO6B
EP	94.102804.5	612 536	Low Velocity Aortic Cannula	Christopher M. Boykin	49198EPO8A
EP	99 11 0619.6		Low Velocity Aortic Cannula	Christopher M. Boykin	49198EPO8A, Divisional of
 JP .	243237/95		Low Velocity Aortic Cannula	Delos M. Cosgrove	49198JAP1B
 JP	26887/94		Low Velocity Aortic Cannula	Christopher M. Boykin	49198JAP2A
SU	08/021,811	5,354,288	Low Velocity Aortic Cannula	Delos M. Cosgrove	49198USA1A
S	08/319,374	5,643,226	Low Velocity Aortic Cannula	Delos M. Cosgrove	49198USA6C
 SU	08/318,207	5,685,865	Low Velocity Aortic Cannula	Delos M. Cosgrove	49198USA8B



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TC 2730 HAIL ROOM

Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No
CA	606396	1313986 Set	dioplegia		43461CAN8A
	93.116012.1	591896	Membrane Blood Oxygenator	Ronald J. Leonard	43620ITA7B
W	US97/09783	97/46272	Modular Blood Treatment		
EΡ	93.116012.1	591896	Membrane Blood Oxygenator	Ronald J. Leonard	43620EPO5B
WO	US97/13623	98/14226	Perfusion System With Perfusion Circuit Display Perfusion System With	Richard A. Nazarian	52837PCT7A
wo	US97/13824 US97/13826	98/14227 98/14228	Control Network Medical Perfusion System	Richard A. Nazarian Richard A. Nazarian	52866PCT6A 52863PCT2A
P	33064/92		Wire Clip	Michael A. Wodka	48650.IAP3A



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TC 2750 FARE ROOM

Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	
JP	123942/93		Combination Mount And Fluid Path For Heat Exchanger	Ronald J. Leonard	47849JAP3A
CA	2173854		Blood Oxygenation System And Reservoir And Method Of Manufacture	Ronald J. Leonard	50116CAN1A
JP	284965/94	: : : :	Cardioplegia Administration System And Method	Kenneth E. Merte	48919JAP3A
FR	93.106754.0	567976	Retrograde Coronary Sinus Catheter	William G. O'Neill	48445FRA3A
DE .	93.106754.0	567976	Retrograde Coronary Sinus Catheter	William G. O'Neill	48445GEW6A
픗	Unknown	Unknown	Multilayer Hollow Fiber Body And Method Of Making	Ronald J. Leonard	50997HOK4A
		. :	•	: : : :	• .
		.:			:



Sensor And Method For Sensing The Concentration Of A Component in A Medium Ted H. Gourley 44070USATE					ENT & TRAU	
US 06425,420 4,557,900 Optical Sensor with Beads Harold A. Heitzmann 44068USAIA US 06/946,433 4,640,820 Flow-Through Housing With Blood Gas Sensing System Roben P. Cooper 44070USAIA US 07/206,189 5,006,314 Concentration Of A Component In A Medium Ted H. Gourley 44070USAIA US 37/824,200 5,120,510 Sensor And Method For Sensing The Concentration Of A Component In A Medium Ted H. Gourley 44070USAIT AT 89,307951,7 354736 Intravascular Blood Gas Sensing System John I. Gehrich 44073BEG88 ADA 5,7718 Intravascular Blood Gas Sensing System John I. Gehrich 44073BEG88 ADA 3777799 17570 Intravascular Blood Gas Sensing System John I. Gehrich 44073CANITA ADA 3777799 17570 Intravascular Blood Gas Sensing System John I. Gehrich 44073CANITA ADA 3777799 175779 Intravascular Blood Gas Sensing System John I. Gehrich 44073GEW3A ADA 3778799 175779 Intravascular Blood Parameter Measurement Thom			•	o. Title	First Inventor	File No.
Sensor S	US	06/425,420	4,557,900			
Sensor S					Haloid A. Heitzilalili	4400803A1A
Sensor And Method For Sensing The	US	06/546,493	4,640,820	Sensors	Robert P. Cooper	AAOCOLICADA
Sensor And Method For Sensing The Concentration Of A Component in A Medium			**	*	Nobell F. Cooper	44009USABA
Sensor And Method For Sensing The Concentration Of A Component in A Medium			•	Sensor And Method For Sensing The		•
Sensor And Mathod For Sensing The Concentration Of A Component in A Medium Ted H. Gourley 440703A7E	US	07/206,189	5,006,314	Concentration Of A Component In A Medium	Ted H Courtou	44070110440
19. 19.					Ted H. Godiley	440700SA1C
19. 19.				Sensor And Method For Sensing The	•	
89.307951.7 354736	US	07/624,200	5,120,510	Concentration Of A Component In A Medium	Ted H Gourley	44070115475
B9.307951.7 354736	AT	89.307951.7	354736	Intravascular Blood Gas Sensing System		
Intravascular Blood Parameter Measurement Thomas P. Maxwell 44073CAN16	BE .	89.307951.7	354736	Intravascular Blood Gas Sensing System		
1.257718				Intravascular Blood Parameter Measurement	9	44073BEG68
1.2 1.2	CA		1338176	System		44073CAN1A
1777/89			1332442	Intravascular Blood Gas Sensing System		
194.106593.0 613651	DK		170570	Intravascular Blood Gas Sensing System		
Heart Bay Ba				Intravascular Blood Gas Sensing System		
Intravascular Blood Parameter Measurement Thomas P, Maxwell M4073FRA6A Intravascular Blood Parameter Measurement Thomas P, Maxwell M4073GEW3D M4073	FR	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	44073EBA2C
Section Sect				Intravascular Blood Parameter Measurement		1107011020
	FR	88.300622.3	276977	System	Thomas P Maxwell	44073FRA6A
				Intravascular Blood Parameter Measurement		
	DE	92.118809.0	536808	System	Thomas P. Maxwell	44073GEW1F
Beg.307951.7 354736			•	Intravascular Blood Parameter Measurement		
Be	DE			System		44073GEW3D
Intravascular Blood Parameter Measurement	DE	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gebrich	
1				Intravascular Blood Parameter Measurement		
19465/88 2642651 System	DE			System		44073GEW9A
P	<u> </u>	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	
P 204542/89 2735302 Intravascular Blood Gas Sensing System	,			Intravascular Blood Parameter Measurement		
P 204542/89 278302 Intravascular Blood Gas Sensing System John L. Gehrich 44073JAP7C 204541/89 2788067 Blood Parameter Measurement System John L. Gehrich 44073JAP9B	<u> </u>				Thomas P. Maxwell	44073JAP1A
Blood Parameter Measurement System				Intravascular Blood Gas Sensing System	John L. Gehrich	
B	JP	204541/89	2788067	Blood Parameter Measurement System	Thomas P. Maxwell	
B 89.307951.7 354736		00.00=00.				
Intravascular Blood Parameter Measurement System Thomas P. Maxwell 44073UNK1E				Intravascular Blood Gas Sensing System	John L. Gehrich	44073NET3B
Section		89.30/951./	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	44073SWE7B
Intravascular Blood Parameter Measurement System Thomas P. Maxwell A4073UNK1E	20	00 110000 0				
1917/1782.6 479341 System	30	92.110009.0	536808		Thomas P. Maxwell	44073UNK1E
B 89.307951.7 354736 Intravascular Blood Gas Sensing System	20	04 404700 0	470044			
Second					Thomas P. Maxwell	
S 38.300622.3 276977 System	<u> </u>	89.30/951./	354/36	Intravascular Blood Gas Sensing System	John L. Gehrich	44073UNK5C
Intravascular Blood Parameter Measurement System Thomas P. Maxwell A4073USA3E	. a		070077			
S	10	00.300022.3	2/69//		Thomas P. Maxwell	44073UNK9A
Intravascular Blood Parameter Measurement System Thomas P. Maxwell A4073USA3I A4073USA5C,	IC.	07/200 050		Intravascular Blood Parameter Measurement		•
S 90/003,443 B1 4,928,694 System Thomas P. Maxwell 744073USA31 74073USA31 74073USA5C; 7 74073USA5C 74073USA5		07/328,056	4,934,369	System	Thomas P. Maxwell	_44073USA1E
S	IS.	00/002 442	D1 4 000 004	Intravascular Blood Parameter Measurement		C
Apparatus And Method For Use In Measuring S 08/055,800 5,462,052 A Compositional Parameter Of Blood John L. Gehrich 44073USA5H S 07/229,703 4,951,669 Blood Parameter Measurement System Thomas P. Maxwell 44073USA5H Intravascular Blood Parameter Measurement System Thomas P. Maxwell 44073USA9A S 07/08,937 4,830,013 System Thomas P. Maxwell 44073USA9A Blood Parameter Measurement System With Compliant Element Thomas P. Maxwell 44073USA9A S 07/539,602 5,048,525 Compliant Element Thomas P. Maxwell 44073USA9F S 07/091,432 4,954,318 Optical Sensor Masao Yafuso 44075USA5A Method And System For Monitoring Of Blood Constituents In Vivo Masao Yafuso 44080USA2B S 07/820,565 5,195,963 Constituents In Vivo Masao Yafuso 44080USA2B G 09104916.4 G 9104916.4 Pump And Calibration System Thomas P. Maxwell 44940GEW1A						
Apparatus And Method For Use In Measuring A Compositional Parameter Of Blood S 07/229,703		011223,017	4,989,000	Intravascular Blood Gas Sensing System	John L. Gehrich	_44073USA5C; 1
S			,	A		
S 07/229,703 4,951,669 Blood Parameter Measurement System Thomas P. Maxwell 44073USA9A	ıs	08/055 900	E 460 050	Apparatus And Method For Use In Measuring		
Intravascular Blood Parameter Measurement System Thomas P. Maxwell A4073USA9A System Thomas P. Maxwell A4073USA9A Blood Parameter Measurement System With Compliant Element Thomas P. Maxwell A4073USA9F A						
S		5.12E3,1U3		Interviolent System	Thomas P. Maxwell	=44073USA7B =
Blood Parameter Measurement System With Compliant Element Thomas P. Maxwell -44073USA9F	IS	07/008 937				7 -1
S 07/539,602 5,048,525 Compliant Element Thomas P. Maxwell -44073USA9F		011000,331			Thomas P. Maxwell	
O7/091,432 4,954,318 Optical Sensor Masao Yafuso 44075USA5A	s	07/539 603	E 049 E3E	Compliant Flames		<u>Q</u>
Method And System For Monitoring Of Blood Constituents In Vivo Masao Yafuso 44080JAP6A						
16128/91 Constituents In Vivo Masao Yafuso 44080JAP6A	-	011031,432			Masao Yafuso	44075USA5A
Method And System For Monitoring Of Blood Constituents In Vivo Masao Yafuso 44080USA1C Method And System For Monitoring Of Blood O7/820,565 5,195,963 Constituents In Vivo Masao Yafuso 44080USA2B G9104916.4 G9104916.4 Pump And Calibration System Thomas P. Maxwell 44940GEW1A	P	16129/01	•	Method And System For Monitoring Of Blood		:
Method And System For Monitoring Of Blood Masao Yafuso 44080USA1C	<u>'</u> -	10120/91			Masao Yafuso	44080JAP6A
Method And System For Monitoring Of Blood Masao Yafuso 44080USATC	S	09/00E 76E				
07/820,565 5,195,963 Constituents In Vivo Masao Yafuso 44080USA2B G9104916.4 G9104916.4 Pump And Calibration System Thomas P. Maxwell 44940GEW1A	<u> </u>	VO/VVO, / 05			Masao Yafuso	44080USA1C
G9104916.4 G9104916.4 Pump And Calibration System Thomas P. Maxwell 44940GEW1A	S	07/900 Ecc				:
3-28899 2591549 Pure And California Office Inchinas F. Maxwell 44940GEWTA						44080U\$A2B
5-25555 2551548 Pump And Calibration System Thomas P. Maxwell 44940JAP2A						44940GEW1A
		J-20033	∠381348 °	rump And Calibration System	Thomas P. Maxwell	44940JAP2A



Country		Publication N	o. Title	First Inventor	Eile Me
US	07/514,689	5,094,820	Pump And Calibration System		File No.
DE	93.103925.9	.560353	Calibration System And Housing	Thomas P. Maxwell	44940USA1A
DE	91.106450.9	454033	Sterile Loop Calibration System	Roxanne E. Wall	44941GEW6B
JP	94363/91	101000	Sterile Loop Calibration System	Thomas P. Maxwell	44941GEW8A
JP	50694/93		Sterile Loop Calibration System	Thomas P. Maxwell	44941JAP1A
US	08/169,154	E 400 000	Calibration System And Housing	Roxanne E. Wall	44941JAP8B
US	08/067,422	5,420,038	Calibration System And Housing	Roxanne E. Wall	44941USA1E
US		5,348,706	Calibration System And Housing	Roxanne E. Abul-Haj	44941USA2D
	07/849,753	5,278,072	Calibration System And Housing	Roxanne E. Wall	44941USA4C
US	07/747,533	5,171,029	Seal Construction For Pump Apparatus	Thomas P. Maxwell	44941USA6B
US	07/514,704	5,057,278	Sterile Loop Calibration System	Thomas P. Maxwell	
US	D-07/456,261	D-326,718	A Blood Sensor Cassette	Thomas P. Maxwell	44941USA8A
				THOMAS F. Maxwell	45052USA2A
DE	G9103971.6	G9103974.6	Apparatus And Assembly For Use In Opticall Sensing A Compositional Blood Parameter	y William J. Miller	45287GEW5A
JP	3-20516	2590382	Apparatus And Assembly For Use In Opticall Sensing A Compositional Blood Parameter System And Method For Predicting The	y William J. Miller	45287JAP7A
		:	System And Method For Predicting The		
DE .	91.105835.2	453901	Value Of A Compositional Parameter Of		
	91.103635.2	453901	Blood	James K. Tusa	45432GEW6A
IP	95294/91	·_	System And Method For Predicting The Value Of A Compositional Parameter Of Blood	James K. Tusa	45420 14 00 4
JS	07/54 700		System And Method For Predicting The Value Of A Compositional Parameter Of	odines K. Tusa	45432JAP8A
	07/514,703	5,134,998	Blood Apparatus And Method For Measuring A	James K. Tusa	45432USA6A
CA	2100063	·	Blood Parameter	Stan O. Heinemann	46843CAN5A
			Apparatus And Method For Measuring A		700 7007 11707
R	92.904440.2	570451	Blood Parameter	Stan O. Heinemann	46843FRA1A
		•	Apparatus And Method For Measuring A	Otal C. Hellemann	40043FRATA
E	92.904440.2	570451	Blood Parameter	Stop O Heinemann	40040051444
			Apparatus And Method For Measuring A	Stan O. Heinemann	46843GEW4A
P	504410/92		Blood Parameter	Star O. Halana	
			Apparatus And Method For Measuring A	Stan O. Heinemann	46843JAP6A
B	92.904440.2	570451	Blood Parameter		
	02.001110.2	370431		Stan O. Heinemann	46843UNK4A
s	07/650 404	15.004.004	Apparatus And Method For Measuring A		
	07/652,121	5,291,884	Blood Parameter	Stan O. Heinemann	46843USA4A
		:	Cuvette For Use In Making A Measurement		
			Of A Blood Parameter And Assembly Utilizing		C)
Α	2062607		The Same	Paul J. Mullin	46940CAN9A
•		:	Cuvette For Use In Making A Measurement	. doi o. widiiii	40940CANSA
		i	Of A Blood Parameter And Assembly Utilizing		
Ε	92.105291.6	510377	The Same	Devil 1 Saure	
		1		Paul J. Mullin	46940GEW8A
		:	Cuvette For Use In Making A Measurement	•	: 9
,	4-14669	0550406	Of A Blood Parameter And Assembly Utilizing		F _ S
	4-14009	2550496	The Same	Paul J. Mullin	-46940JAP1A
		:	Cuvette For Use In Making A Measurement		0 0
_		!	Of A Blood Parameter And Assembly Utilizing	•	9
<u> </u>	92.105291.6	510377	The Same	Paul J. Mullin	46940UNK8A
		1	Cuvette For Use In Making A Measurement		400400111004
		Ì	Of A Blood Parameter And Assembly Utilizing	•	
<u> </u>	07/676,956	5,289,255	The Same	Paul J. Mullin	40040110454
S	07/757,455	5,131,625	One-Time Use Disposable Bottle Valve	·	46940USA8A
	07/885,713	5,333,609	Catheter And Proba Catheter Assessit	Thomas G. Hacker	47493USA6A
		2,000,000	Catheter And Probe-Catheter Assembly	William Bedingham	47738USA6A
•	96 105226 2	720574	Fiber Optic Temperature Sensor For Medical		
	96.105226.3		Application	Shunsuke Takaki	48370EPO1B
_		1	Fiber Optic Temperature Sensor For Medical		
	94.901307.2	670994	A mailional and	Shunsuke Takaki	48370GEW5A
			Fiber Optic Temperature Sensor For Medical		- TOU DOE VYSA
<u> </u>	314852/92		A = = 11 = = 11	Chunguka Takald	10070115
				Shunsuke Takaki	48370JAP7A
<u> </u>	09/002,587	!	Method Of Making A Temperature Sensor		1
			For Medical Application	Shunsuke Takaki	48370USA3B



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	Application or			FAT & TRADEN	
Country	Serial No.	Publication No	. Title	First Inventor	File No.
us ·	08/436,435	5,779,365	Temperature Sensor For Medical Application	Shunsuke Takaki	48370USA5A
DE	93.918132.9	647118	Invasive Fiber Optic Blood Pressure Transducer	Shunsuke Takaki	48372GEW1A
JP	130516/93		Invasive Fiber Optic Blood Pressure Transducer	Shunsuke Takaki	48372JAP1B
wo	US93/06105	94/00051	Invasive Fiber Optic Blood Pressure Transducer	Shunsuke Takaki	48372PCT9A
US	08/351,323	5,711,291	Blood Pressure Transducer	Shunsuke Takaki	48372USA1A
US	09/012,915		Blood Pressure Transducer	Shunsuke Takaki	48372USA9B
CA	2099300		Intravascular Blood Parameter Sensing System	William Bedingham	48779CAN1A
FR	93.110258.6	577038	Intravascular Blood Parameter Sensing System	William Bedingham	
			Intravascular Blood Parameter Sensing	vvillarir bedingriarir	48779FRA6A
DE	93.110258.6	577038	System Intravascular Blood Parameter Sensing	William Bedingham	48779GEW9A
<u>T</u>	93.110258.6	577038	System	William Bedingham	48779ITA9A
IP	153397/93		Intravascular Blood Parameter Sensing System	William Bedingham	48779JAP1A
3B	93.110258.6	577038	Intravascular Blood Parameter Sensing System	William Bedingham	48779UNK9A
JS	08/247,025	5,421,328	Intravascular Blood Parameter Sensing System	William Bedingham	48779USA7B
JS	07/906,740	5,335,658	Intravascular Blood Parameter Sensing System	William Bedingham	
:P	95.909302.2		Method And Apparatus For Noninvasive Prediction Of Hematocrit		48779USA9A
P	520117/95		Method And Apparatus For Noninvasive Prediction Of Hematocrit	Hatim M. Carim	50445EPO1A
	08/711,612		Method And Apparatus For Noninvasive	Hatim M. Carim	50445JAP4A
	00.777,012		Prediction Of Hematocrit	Hatim M. Carim	50445USA1B
s	08/189,600	5,553,615	Method And Apparatus For Noninvasive Prediction Of Hematocrit	Hatim M. Carim	50445USA2A
s	08/439,522	5,583,213	Process to Activate Sulfated Polysacchandes	Masao Yafuso	50673USA9A
, o	US97/11111		•		
	D-29/084,339	98/37801	Cassette For Measuring Parameters Of Blood	Thomas G. Hacker	53212PCT1A
			Shunt Sensor For Blood Gas Measurement	Thomas G. Hacker	53212USA1B
<u>s</u> .	09/031,415		Cassette For Measuring Parameters Of Blood Calibration Cuvette Assembly For Blood Gas	Thomas G. Hacker	53212USA1G
S	D-29/084,336	Des. 408,918	Measurement	Thomas G. Hacker	
s	D-29/084,200	Des. 408,917	Membrane Support Structure Of A Flow Through Cell For Blood Gas Measurement	Thomas G. Hacker	-53212USA4E
S 1	D-29/084,338	I	Flow Through Cell For Blood Gas Measurement	Thomas G. Hacker	53212USA6D
S I	D-29/084,335		Sensor Cassette For Blood Gas Measurement		يند ف ع
			Cassette For Tonometric Calibration	Thomas G. Hacker	-53212USA8C =
	08/806,368		•	Thomas G. Hacker	53213PCT8A
				Thomas G. Hacker N. Alan Abul-Haj	53213USA1A 53215PCT4A
<u> </u>			Assembly For David Co. D. C.		
		F	Process for Modifying Surfaces Using the	Nagel A. Abul-Haj	53215USA6A
<u> </u>	JS97/20055	<u>_</u> F	Reaction Product of a Water-Insoluble Polymer and a Polyalkylene Imine	David F. Wirt	53261PCT7A
		F	Process for Modifying Surfaces Using the Reaction Product of a Water-Insoluble		:
<u> </u>	08/886,720	<u>F</u>	National ()	David F. Wirt	53261USA9A

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Country	Application or Serial No.	Patent or Publication No.	T		
	 -	. NO.	Title	First Inventor	File No.
DX	90.310217.6	419222	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446DEN1A
F D	90.310217.6	419222	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446FRA5A
O m	90.310217.6	419222	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446GEW8A
7	90.310217.6	419222	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446ITA8A
S _P	246936/90		Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446JAP1A

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IT 90.310219.2 419223 S	DE 90.310219.2 419223 S	FR 90.310219.2 419223 5	DK 90.310219.2 419223 8	CA 2025330	US 07/995,543 5,706,208	3 90.310217.6 419222
Dynamic Condition Using Near Infrared Spectroscopy	Dynamic Condition Using Near Infrared Spectroscopy Characterizing Biological Matter In A	Dynamic Condition Using Near Infrared Spectroscopy Characterizing Biological Matter In A	Dynamic Condition Using Near Infrared Spectroscopy Characterizing Biological Matter In A	Dynamic Condition Using Near Infrared Spectroscopy Characterizing Biological Matter In A	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof Characterizing Biological Matter In A	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof
David W Osten	David W. Osten	David W. Osten	David W. Osten	David W. Osten	David W. Osten	David W. Osten
7777776A	44447GEW6A	44447FRA3A	44447DEN8A	44447CAN7A	44446USA6B	44446UNK8A

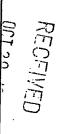
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			Characterizing Biological Matter In A		
į			Dynamic Condition Using Near Infrared		
JP	246937/90		Spectroscopy	David W. Osten	44447JAP8A
			Characterizing Biological Matter In A		
			Dynamic Condition Using Near Infrared		
X	22276	183929	Spectroscopy	David W. Osten	44447MEX9A
		-	Characterizing Biological Matter In A		
			Dynamic Condition Using Near Infrared		
NC .	90.310219.2	419223	Spectroscopy	David W. Osten	44447NET2A
	•		Characterizing Biological Matter In A	·	
)			Dynamic Condition Using Near Infrared		
C.	90.310219.2	419223	Spectroscopy	David W. Osten	44447SPA4A
			Characterizing Biological Matter In A		
1		•	Dynamic Condition Using Near Infrared		
VIT.	90.310219.2	419223	Spectroscopy	David W. Osten	44447SWE6A
			Characterizing Biological Matter In A		
)			Dynamic Condition Using Near Infrared		
GB	90.310219.2	419223	Spectroscopy	David W. Osten	44447UNK6A
5		•	Characterizing Biological Matter Using		
S	08/476,129	5,830,133	Near-Infrared Spectroscopy Spectrum	David W. Osten	44447USA1D
			Characterizing Biological Matter In A		
5			Dynamic Condition Using Near Infrared		
S.	07/995,951	5,729,333	Spectroscopy	David W. Osten	44447USA2C
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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
JP .	229831/92		Method And Apparatus For Detecting The Presence Of Carbon Dioxide Gas In A Sample	Romano Morlotti	47543 IADIA
ō ·	44E8E4/00		Catheter And Probe-Catheter		47343JAFTA
1	115854/93		Assembly	William Bedingham	47738JAP8A
			Invasive Fiber Optic Blood		
, T	1/0949/92		Pressure Transducer	Shunsuke Takaki	48372JAP3A
ĘP	93.110258.6	577038_	Sensing System	William Bedingham	48779EPO7A
CA	2210921		Process for Modifying Surfaces	Larry M. Sirvio	51435CAN3A
US ::	08/806,368	:	Cassette For Tonometric Calibration	Thomas G. Hacker	53213USA1A
FR	93103925.9	560353	560353 Sterile Loop Calibration System	Thomas D Maywell	

	•	Patent or			<u> </u>
1.	Application	or Publication	1		
Country	Serial No.	No.	Title	First Inventor	File No.
us	07/148,153	4,849,172	Optical Sensor	Masao Yafuso	44070USA9D
us	07/302,832	4,867,919	Method Of Making A Gas Sensor	Masao Yafuso	44071USA1B
us	90/003,660	B1 4,824,789	Gas Sensor	Masao Yafuso	44071USA9C
FR	87.308884.3	263693	Micro Sensor	Masao Yafuso	44072FRA8A
DE	87.308884.3	263693	Micro Sensor	Manage Values	4407007
DE	80.204064.0		Composition, Apparatus And Method For Sensing Ionic	Masao Yafuso -	44072GEW1A
	89.304264.8	340018	Components	Masao Yafuso	44072GEW9B
JP	111935/89	2655545	Composition, Apparatus And Method For Sensing Ionic Components	Masao Yafuso	44072JAP3A
GB	87.308884.3	263693	Micro Sensor	Masao Yafuso	•
GB			Composition, Apparatus And Method For Sensing Ionic	Masao Taluso	44072UNK1A
<u> СБ</u>	89.304264.8	340018	Components	Masao Yafuso	44072UNK9B
US	06/917,913	4,798,738	Micro Sensor	Masao Yafuso	44072USA1A
us ·	07/188,414	4,999,306	Composition, Apparatus And Method For Sensing Ionic Components	Masao Yafuso	44072USA9B
us	07/492,550	5,075,127	Sensor With Overcoating And Process For Making Same	Masao Yafuso	44074USA5B
DE	91.105015.1	450519	Ionic Component Sensor And Method For Making And Using Same	Manage Value	
JP	70108/91		Ionic Component Sensor And Method For Making And Using	Masao Yafuso	45266GEW9A
<u>, </u>			Same Ionic Component Sensor And	Masao Yafuso	_45266JAP1A
JS	07/503,838	5,081,041	Method For Making And Using Same	: Masao Yafuso	45266USA9A
DE	91.104251.3	448052	Gas Sensing Element And Method For Making And Using Same	Masao Yafuso	29 D
IP	54727/91		Gas Sensing Element And Method For Making And Using Same	Masao Yafuso	RO S 15274JAP4A
JS	07/949,771	5,284,775	Gas Sensing Element And Method For Making Same	Masao Yafuso	45274USA1B
JS:	07/496,560		Method Of Making Gas Sensing Element	Masao Yafuso	45274USA2A
10		· · · · · · · · · · · · · · · · · · ·	Ionic Component Sensor And Method For Making And Using		TOLITOORER
is i	07/496,561	5,081,042	Same	Masao Yafuso	45275USA1A
.U :	26363/92	662925	Sensors And Methods For Sensing	Colleen C. Nagei	47552AUS8A
A 2	2079987		Sensors And Methods For Sensing	Colleen C. Nagel	47552CAN1A
R g	2.118462.8	539967	Sensors And Methods For Sensing	Colleen C. Nagel	47552FRA7A

APPENDIX C

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		Patent or		ENIB	
Ca	Application				
Country	Serial No.	No.	Title	First Inventor	File No.
DE	92.118462.8	539967	Sensors And Methods For Sensing	Colleen C. Nagel	47550051444
				Coneen C. Nager	47552GEW1A
<u>IT</u>	92.118462.8	539967	Sensors And Methods For Sensing	Colleen C. Nagel	47552ITA1A
JP	294193/92		Sancare And Matheda Fac Caratin		
			Sensors And Methods For Sensing	Colleen C. Nagel	47552JAP2A
GB	92.118462.8	539967	Sensors And Methods For Sensing	Colleen C. Nagel	47552UNK1A
us	08/373,855	E 409 E40			
		5,498,549	Sensors And Methods For Sensing	Colleen C. Nagel	47552USA6C
us	08/137,289	5,409,666	Sensors And Methods For Sensing	Colleen C. Nagel	47552USA8B
CA	2176006				
UA .	2176006		Sensor With Improved Drift Stability	/ James G. Bentsen	50414CAN8A
EP .	95.900406.0		Sensor With Improved Drift Stability	/ James G. Bentsen	50414EPO5A
	:	,			30414EPO3A
JP	515596/95		Sensor With Improved Drift Stability	James G. Bentsen	50414JAP9A
JS	08/800,435		Method Of Making A Sensor With Improved Drift Stability	Ismas G. Ponteen	50444110400
				James G. Bentsen	50414USA3C
JS	08/375,304	5,607,645	Sensor With Improved Drift Stability	James G. Bentsen	50414USA5B
JS	08/160,687	5,403,746	Sensor With Improved D-4 Ca-Lilly		
	00,100,001	0,400,740	Sensor With Improved Drift Stability	James G. Bentsen	50414USA7A
			Permeable Polymer Compositions		•
P	95.940670.3	796291	And Blood Gas Sensor Overcoats	Daniel C. Duan	50671EPO1A
			Permeable Polymer Compositions		
P	517593/96		And Blood Gas Sensor Overcoats	Daniel C. Duan	50671JAP5A
				Duriner O. Duari	()
		,	Method Of Making Blood Gas		27 27
IS	08/351,771	5,670,097	Sensor Overcoats Using Permeable Polymeric Compositions		
	· .	3,070,037	Removal Of Biologically Active	Daniel C. Duan	-50671USA3A
P	98.931560.1		Agents	David F. Wirt	51005EPO1A
v o			Removal Of Biologically Active		
<u>vo</u>	US98/13145		Agents	David F. Wirt	51005PCT1A
<u>s</u>	08/886,721		Removal Of Biologically Active Agents	David E Mid	E100EUGAGA
			Ionic Sensor And A Method For	David F. Wirt	51005USA3A
<u>P</u>	95.933203.2	789839	Producing Same	John L. Dektar	51213EPO1A
P .	99.103985.0		Ionic Sensor And A Method For	<u></u>	• .
<u>' </u>	99.103965.0	<u> </u>	Producing Same Ionic Sensor And A Method For	John L. Dektar	51213EPO8B
>	509731/96		Producing Same	John L. Dektar	51213JAP4A
			Ionic Sensor And A Method For	Oom L. Dektar	312133AF4A
S :	08/332,244	5,591,400	Producing Same	John L. Dektar	51213USA2A
P -	96:936493.4		Novel Emulsion For Robust Sensing	Kothnin D. Brotocki	: :E1200EDCC:
			Novel Emulsion For Robust	Kathryn R. Bretscher	51320EPO3A
	519708/97		Sensing	Kathryn R. Bretscher	51320JAP7A
: S :	08/943,824		Novel Emulsion For Robust		
<u></u>	00/340,024		Sensing Novel Emulsion For Robust	Kathryn R. Bretscher	51320USA3B
	08/562,036	5,714,122		Kathryn R. Bretscher	51320USA5A
) :	96.902662.4	807,141		Larry M. Sirvio	51435EPO1A

	Application or	Patent or Publication			
Country	Serial No.	No.	Title	First Inventor	Eile Ne
JP	523552/96	8-523552	Process for Modifying Surfaces	Larry M. Sirvio	File No.
US	08/381,754		Process for Modifying Surfaces	Larry M. Sirvio	51435JAP4A 51435USA2A

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Country	Application or Serial No.	Application Patent or Country or Serial No. Publication No.	Title	First Inventor	File No.
EP P	89.304264.8	340018	Composition, Apparatus And Method For Sensing 340018 lonic Components	Masao Yafuso	44072EPO7B
O E	92.118462.8 96.902662.4	539967	And Methods ing for Modifying	<u>e</u>	47552EPO8A
DE	96.902662.4	807,141		Larry M. Sirvio	51435GEW2A